

Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET NO. BC45300-1	SERIAL NO. 10/650,608
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT Cassart, et al.	
		FILING DATE August 28, 2003	GROUP Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
MD	AA	WO9315763	1993-08-19	PCT				
	AB	WO0053748	2000-09-14	PCT				
	AC	WO200157275	2001-01-30	PCT				
	AD	WO200157276	2001-01-30	PCT				
	AE	WO9514772	1994-11-11	PCT				
	AF	WO01/02828	2001-11-01	PCT				

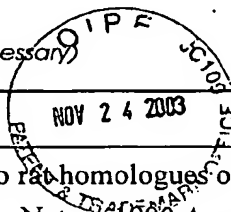
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MD	BA	Database- Swiss-Prot Accession Number: Q99929 (November 1, 1997)
	BB	Database-EMBL Accession Number: U77629 (November 27, 1997)
	BC	Alders, et al., The Human Achaete-Scute Homologue 2 (ASCL2, HASH2) Maps To Chromosome 11p15.5, Close to IGF2 and is Expressed in Extravillous Trophoblasts," Human Molecular Genetics Vol 6, No. 6 pp:859-867 (1997)
	BD	Database- Swiss-Prot Accession Number: Q9WUJ7 (November 1, 1999)
	BE	Database- Swiss-Prot Accession Number: 035885 (January 1, 1998)
	BF	Database- EMBL Accession Number U77628 (November 27, 1997)
	BG	Database-EMBL Accession Number X53724 (September 22, 1990)
	BH	Miyamoto, et al., "The Human ASCL2 Gene Escaping Genomic Imprinting and its Expression Pattern," J. Assist. Reprod. Gene.
	BI	Westerman, et al., The Human Achaete Scute Homolog 2 gene contains two promoters, generating overlapping transcripts and encoding two proteins with different nuclear localization. Placenta 2001 Jul;22(6):511-8.
	BJ	Jiang, et al., Hypoxia prevents induction of aromatase expression in human trophoblast cells in culture: potential inhibitory role of the hypoxia-inducible transcription factor Mash-2 (mammalian achaete-scute homologous protein-2). Mol Endocrinol 2000 Oct;14(10):1661-73.
	BK	Scott IC, et al., The HAND1 basic helix-loop-helix transcription factor regulates trophoblast differentiation via multiple mechanisms. Mol Cell Biol 2000 Jan;20(2):530-41.

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MD	BL	Tanaka, et al., Parental origin-specific expression of Mash2 is established at the time of implantation with its imprinting mechanism highly resistant to genome-wide demethylation. Mech Dev 1999 Sep;87(1-2):129-42.
	BM	Janatpour, et al., A repertoire of differentially expressed transcription factors that offers insight into mechanisms of human cytotrophoblast differentiation. J Dev Genet 1999;25(2):146-57.
	BN	Kraut, et al., Requirement of the mouse I-mfa gene for placental development and skeletal patterning. EMBO J 1998 Nov 2;17(21):6276-88.
	BO	Rossant, et al., Mash2 is expressed in oogenesis and preimplantation development but is not required for blastocyst formation. Mech Dev 1998 May;73(2):183-91.
	BP	Miyamoto, et al., A SacII polymorphism in the human ASCL2 (HASH2) gene region. J Hum Genet 1998;43(1):69-70.
	BQ	Hu, et al., A 2.5-Mb transcript map of a tumor-suppressing subchromosomal transferable fragment from 11p15.5, and isolation and sequence analysis of three novel genes. Genomics 1997 Nov 15;46(1):9-17.
	BR	Tanaka, et al., Mash2 acts cell autonomously in mouse spongiotrophoblast development. Dev Biol 1997 Oct 1;190(1):55-65.
	BS	Nakayama, et al., Developmental restriction of Mash-2 expression in trophoblast correlates with potential activation of the notch-2 pathway. Dev Genet 1997;21(1):21-30.
	BT	Miyamoto, et al., Genomic cloning and localization to chromosome 11p15.5 of the human achaete-scute homolog 2 (ASCL2). Cytogenet Cell Genet 1996;73(4):312-4.
	BU	Leighton, et al., An enhancer deletion affects both H19 and Igf2 expression. Genes Dev 1995 Sep 1;9(17):2079-89.
	BV	Guillemot, et al., Genomic imprinting of Mash2, a mouse gene required for trophoblast development. Nat Genet 1995 Mar;9(3):235-42.
	BW	Guillemot, et al., Essential role of Mash-2 in extraembryonic development. AL. Nature 1994 Sep 22;371(6495):333-6.
	BX	Johnson, et al., DNA binding and transcriptional regulatory activity of mammalian achaete-scute homologous (MASH) proteins revealed by interaction with a muscle-specific enhancer. Proc Natl Acad Sci U S A 1992 Apr 15;89(8):3596-600.
↓	BY	Johnson, et al., Induction and repression of mammalian achaete-scute homologue (MASH) gene expression during neuronal differentiation of P19 embryonal carcinoma cells. Development 1992 Jan;114(1):75-87.

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MD	BZ	Johnson, et al., Two rat homologues of Drosophila achaete-scute specifically expressed in neuronal precursors. Nature 1990 Aug 30;346(6287):858-61.
	BAA	mRNA-DNA GenBank Accession Number: NM-005170.1
	BBB	mRNA-DNA GenBank Accession Number: XM-113673.1
	BCC	mRNA-DNA GenBank Accession Number: XM-113699.1
	BDD	mRNA-DNA GenBank Accession Number: AF442769.1
	BEE	mRNA-DNA GenBank Accession Number: S82817.1
	BFF	Protein GenPep Accession Number: XP-113673.1
	BGG	Protein GenPep Accession Number: XP-113699.1
	BHH	Protein GenPep Accession Number: AAL35362.1
	BII	Protein GenPep Accession Number: AAB39362.1
	BJJ	Protein GenPep Accession Number: NP_005161 (Journal: Hum. Mol. Genet. 6(6), 859-867 (1997)).
↓	BKK	Protein GenPep Accession Number: AAB39362.1, (Journal: Hum. Mol. Genet. 6(6), 859-867 (1997)).
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/Minh Tam Davis/ (06/23/2006)

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				FILING DATE		August 28, 2003	
				APPLICANT		Cassart et al.	
				GROUP		1642	
				EXAMINER		Min-Tam Davis	
				ATTORNEY DOCKET NO.		BC45300-1US	
U.S. PATENT DOCUMENTS							
Examiner Initials		Patent Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Publication Date	Country	Class	Subclass	Translation Yes No
OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)							
MD	1.	BANERJEA et al., Colorectal cancers with microsatellite instability display mRNA expression signatures characteristic of increased immunogenicity, <i>Molecular Cancer</i> 3:31 (2004).					
	2.	CUI et al., Loss of imprinting in normal tissue of colorectal cancer patients with microsatellite instability, <i>Nature Medicine</i> 4(11):1276 (1998).					
	3.	GUILLEMOT et al., Essential role of <i>Mash-2</i> in extraembryonic development, <i>Nature</i> 371:333 (1994).					
	4.	JIANG et al., Hypoxia Prevents Induction of Aromatase Expression in Human Trophoblast Cells in Culture: Potential Inhibitory Role of Hypoxia-Inducible Transcription Factor Mash-2 (Mammalian Achaete-Scute Homologous Protein-2), <i>Molecular Endocrinology</i> 14(10):1661 (2000).					
	5.	JIANG and MENDELSON, USF1 and USF2 Mediate Inhibition of Human Trophoblast Differentiation and <i>CYP19</i> Gene Expression by Mash-2 and Hypoxia, <i>Molecular and Cellular Biology</i> , 23(17):6117 (2003).					
	6.	JIANG and MENDELSON, O ₂ Enhancement of Human Trophoblast Differentiation and <i>hCYP19</i> (Aromatase) Gene Expression are Mediated by Proteasomal Degradation of USF1 and USF2, <i>Molecular and Cellular Biology</i> , 25(20): 8824 (2005).					
	7.	JUBB et al., Achaete-scute like 2 (<i>asc12</i>) is a target of Wnt signaling and is upregulated in intestinal neoplasia, <i>Oncogene</i> 25:3445 (2006).					
	8.	KOIDE et al., The Expression of Proprotein convertase PACE4 Is Highly Regulated by Hash-2 in Placenta: Possible Role of Placenta-Specific Basic Helix-Loop-Helix Transcription Factor, Human Achaete-Scute Homologue-2, <i>J. Biochem</i> 134:433 (2003).					
	9.	MASSARI and MURRE, Helix-Loop-Helix Proteins: Regulators of Transcription in Eucaryotic Organisms, <i>Molecular and Cellular Biology</i> 20(2):429 (2000).					
	10.	MIYAMOTO et al., The Human <i>ASCL2</i> Gene Escaping Genomic Imprinting and Its Expression Pattern, <i>J. of Assisted Reproduction and Genetics</i> , 19(5): 240 (2002).					
	11.	SPINK et al., Structural basis of the Axin-adenomatous polyposis coli interaction, <i>The EMBO Journal</i> 19(10):2270 (2000).					
	12.	WESTERMAN et al., The Human Achaete Scute Homolog 2 Gene Contains Two Promoters, Generating Overlapping Transcripts and Encoding Two Proteins with Different Nuclear Localization, <i>Placenta</i> 22:511 (2001).					
↓	13.	ZHANG et al., JMJD2A Is a Novel N-CoR-Interacting Protein and Is Involved in Repression of the Human Transcription Factor Achaete Scute-Like Homologue 2 (<i>ASCL2/Hash2</i>), <i>Molecular and Cellular Biology</i> 25(15):6404 (2005).					
EXAMINER				/Minh Tam Davis/ (09/20/2006)		DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							